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## INDEX TO AMERICAN BOTANICAL LITERATURE

1917-1919

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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**Abrams, L. R.** A new California Cypress. *Torreya* **19**: 92. 9 Jl 1919.  
*Cupressus nevadensis* sp. nov.

**Arthur, J. C.** A correction. *Torreya* **19**: 83. 25 Je 1919.  
*Syntherisma pruriens*, error in publication.

**Ashe, W. W.** Notes on trees and shrubs in the vicinity of Washington.  
*Bull. Torrey Club* **46**: 221-226. 8 Jl 1919.  
*Amelanchier sera* and *A. micropetala* (Robinson), spp. nov., are described.

**Bailey, I. W.** Structure development, and distribution of so-called  
rims or bars of Sanio. *Bot. Gaz.* **67**: 449-468. *pl.* 13-15. 21 Je  
1919.

**Barnhart, J. H.** Brackenridge and his book on ferns, *Jour. N. Y.*  
*Bot Gard.* **20**: 117-124. Je 1919.

**Benedict, R. C.** The simplest fern in existence. *Am. Fern Jour.* **9**:  
48-50. *pl.* 3. Jl 1919.

**Bigelow, H. C.** A fern from the battle-ground. *Am. Fern Jour.* **9**: 58.  
Jl 1919.

**Bisby, G. R.** Studies on *Fusarium* diseases of potatoes and truck  
crops in Minnesota. *Minnesota Agr. Exp. Sta. Bull.* **181**: 1-47  
*f.* 1-30. Mr 1919.

**Blakeslee, A. F.** A unifoliolate mutation in the Adzuki bean. *Jour.*  
*Heredity* **10**: 153-155. *f.* 1, 2. 26 My 1919.

- Boynton, K. R.** *Eupatorium coelestinum*. *Addisonia* 4: 39, 40. *pl.* 140. 30 Je 1919.
- Britton, N. L. & Rose, J. N.** The Cactaceae. Descriptions and illustrations of plants of the Cactus family. i-vii + 1-236. *pl.* 1-36 + *f.* 1-301. Washington. 1919.  
Carnegie Publ. No. 248, Vol. I; includes the new genus *Tacinga* and new species in *Opuntia* (30), *Pereskia* (4), *Pterocactus* (3), *Nopalea* (1), and *Tacinga* (1).
- Burt, E. A.** *Merulius* in North America, supplementary notes. *Ann. Missouri Bot. Gard.* 6: 143-145. Ap 1919.
- Clark, H. W.** Dwarf shore floras. *Trans. Illinois Acad. Sci.* 10: 145-159, *pl.* 1-5. 1917.
- Clayton, E. E.** Hydrogen cyanide fumigation. *Bot. Gaz.* 67: 483-500. *f.* 1, 2. 21 Je 1919.
- Clute, W. W.** Defining double flowers. *Gard. Chron. Am.* 23: 189. Je 1919.
- Cockerell, T. D. A.** Sir Joseph Hooker. *Science* II. 49: 525-530. 6 Je 1919.
- Collins, G. N.** A fossil ear of maize. *Jour. Heredity* 10: 170-172. *f.* 7. 26 My 1919.
- Coville, F. V.** The threatened extinction of the box huckleberry, *Gaylussacia brachycera*. *Science* II. 50: 30-34. 11 Jl 1919.
- Dalbey, N. E.** *Phyllachora* as the cause of a disease of corn, and a general consideration of the genus *Phyllachora*. *Trans. Illinois Acad. Sci.* 10: 230-248. *f.* 3-9. 1917.
- Duggar, B. M., & Davis, A. W.** Seed disinfection for pure culture work: the use of hypochlorites. *Ann. Missouri Bot. Gard.* 6: 159-170. Ap 1919.
- Ensign, M. R.** Gas injury to wheat. *Phytopathology* 9: 266. 24 Je 1919.
- Evans, A. W.** A new *Riccia* from Peru. *Torreyia* 19: 85-88. *f.* 1. 9 Jl 1919.  
*Riccia bistriata* sp. nov.
- Falk, K. G., McGuire, G., & Blount, E.** Studies on enzyme action—XVII. The oxidase, peroxidase, catalase, and amylase of fresh and dehydrated vegetables. *Jour. Biol. Chem.* 38: 229-244. Je 1919.
- Farwell, O. A.** *Tsuga americana* (Mill.) Farwell, a final word. *Rhodora* 21: 108, 109. Je 1919.

- Fernald, M. L.** *Panicum* § *Capillaria* in New England. *Rhodora* **21**: 110-114. Je 1919.  
*Paricum Tuckermanni* sp. nov. is described.
- Fromme, F. D., & Wingard, S. A.** Bean rust. Virginia Agr. Exp. Sta. Bull. 220: 1-18. *pl.* 1-5. N 1918.
- Gleason, H. A.** What is ecology? *Torreyia* **19**: 89-91. 9 Jl 1919.
- Graves, E. W.** The botrychiums of Mobile County, Alabama. *Am. Fern Jour.* **9**: 56-58. Jl 1919.
- Griffiths, D.** New and old species of *Opuntia*. *Bull. Torrey Club* **46**: 195-206. *pl.* 9, 10. 8 Jl 1919.  
Eight new species are described.
- Güssow, H. T.** Establishment of an imperial (British) Bureau of Mycology. *Phytopathology* **9**: 265. 24 Je 1919.
- Haas, A. R. C.** Anesthesia and respiration. *Science* **46**: 462-464. 9 N 1917.
- Harper, R. M.** A forest reconnaissance of the Delaware Peninsula. *Jour. Forestry* **17**: 546-555. My 1919. [Map]
- Haskell, R. J.** *Fusarium* wilt of potato in the Hudson River valley, New York. *Phytopathology* **9**: 223-260. *pl.* 13-15. 24 Je 1919.
- Higgins, B. B.** Gum formation with special reference to cankers and decays of woody plants. *Georgia Agr. Exp. Sta. Bull.* **127**: 23-51. *pl.* 1-6. + *f.* 1, 2. Ja 1919.
- Higley, R.** Notes on *Cephaleuros virescens*. *Trans. Illinois Acad. Sci.* **10**: 256-258. 1917.
- Hughes, F. T.** Botany in the city high schools. *Torreyia* **19**: 57-65. 25 Je 1919.
- Hunnicut, B. H.** A forage plant from the Solanaceae family. *Jour. Heredity* **10**: 185-187. *f.* 14, 15. 26 My 1919.
- Johnson, J.** The influence of heated soil on seed germination and plant growth. *Soil. Sci.* **7**: 1-103. *pl.* 1-8. Ja 1919.
- Johnson, J., & Hartman, R. E.** Influence of soil environment on the rootrot of tobacco. *Jour. Agr. Research* **17**: 41-86. *pl.* 1-7. 15 My 1919.
- King, C. A.** Changes in teaching biology in our high schools. *Torreyia* **19**: 65-71. 25 Je 1919.
- Kylin, H., & Skottsberg, C.** Zur Kenntnis der subantarktischen und antarktischen Meeresalgen—II. Rhodophyceen. *Wissenschaftliche Ergebnisse der Schwedischen Südpolar Exp.* 1901-1903. **4**: 1-88. *pl.* 1 + *f.* 1-38. 1919.

- Lillo, M.** Segunda contribucion al conocimiento de los arboles de la Argentina. 1-69. Tucuman. 1917.
- Long, B.** *Jasione montana* a conspicuous weed near Lakewood, New Jersey. *Rhodora* **21**: 105-108. Je 1919.
- Lutman, B. F.** Osmotic pressures in the potato plant at various stages of growth. *Am. Jour. Bot.* **6**: 181-202. f. 1, 2. My 1919.
- MacDougal, D. T.** Growth in organisms. *Science* II. **49**: 599-605: 27 Je 1919.
- Mackenzie, K. K.** *Eupatorium maculatum*. *Addisonia* **4**: 23, 24. pl. 132. 30 Je 1919.
- Mann, P. B.** The relation of first year botany to advanced work, with reference to certain applications and by-products. *Torreyia* **19**: 72-78. 25 Je 1919.
- Maxon, W. R.** Ferns of the District of Columbia. *Am. Fern Jour.* **9**: 38-48. Jl 1919.
- Maxon, W. R.** A new *Alsophila* from Guatemala and Vera Cruz. *Proc. Biol. Soc. Washington* **32**: 125-129. 27 Je 1919.  
*Alsophila scabriuscula* sp. nov.
- MacInnes, F. J.** The occurrence of *Alternaria* in a characteristic apple spot, and an apple rot caused by *Gliocladium viride*. *Trans. Illinois Acad. Sci.* **10**: 218-229. pl. 1-4. 1917.
- McAtee, W. L.** Summary of notes on winter blooming at Washington, D. C. *Proc. Biol. Soc. Washington* **32**: 129-132. 27 Je 1919.
- McLean, R. C.** Studies in the ecology of tropical rain-forests: with special reference to the forests of south Brazil. *Jour. Ecol.* **7**: 5-54. pl. 1 + f. 1-21. My 1919.
- Melhus, I. E., & Rhodes, L. L.** A quick method of eliminating seed-borne organisms of grain. *Science* II. **50**: 21. 4 Jl 1919.
- Miles, L. E.** Some new Porto Rican fungi. *Trans. Illinois Acad. Sci.* **10**: 249-255. f. 1-3. 1917.  
Includes new species in *Mycosphaerella* (9), *Helminthosporium* (1), *Cercospora* (1).
- Nash, G. V.** *Crataegus macrosperma*. *Addisonia* **4**: 35. pl. 138. 30 Je 1919.
- Nash, G. V.** The digger pine in the botanical garden. *Jour. N. Y. Bot. Gard.* **20**: 127, 128. Je 1919.
- Nash, G. V.** *Malus Halliana*. *Addisonia* **4**: 27. pl. 134. 30 Je 1919.
- Nash, G. V.** *Oxydendrum arboreum*. *Addisonia* **4**: 37, 38. pl. 139. 30 Je 1919.

- Payson, E. B.** The North American species of *Aquilegia*. Contr. U. S. Nat. Herb. **20**: 133-157. *pl.* 8-15. 1919.  
Four new species are described.
- Pellegrin, F.** Quelques remarques sur les Dioscoréacées du Paraguay. Bull. Soc. Bot. Genève **10**: 383-388. 1918.
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- Pepoon, H. S.** The primrose rocks of Illinois. Trans. Illinois Acad. Sci. **10**: 159-162. 1917. [Illust.]
- Petch, T.** Citrus mildew: a correction. Phytopathology **9**: 266. 24 Je 1919.
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- Roberts, H. F.** The founders of the art of breeding—II. Jour. Heredity **10**: 147-152. *f.* 1 + *frontispiece*. 26 My 1919.
- Roberts, R. H.** "Crinkle" on northwestern greening. Phytopathology **9**: 261-263. *pl.* 16, 17. 24 Je 1919.
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*Cyrtandra Giffardii*, *C. limosiflora*, *C. montis Loa*, *C. ramosissima*, and *C. Hashimotoi*, spp. nov., are described.
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- Schaffner, J. H.** The nature of the dioecious condition in *Morus alba* and *Salix amygdaloides*. Ohio Jour. Sci. **19**: 409-416. My 1919.
- Schmitz, H.** Studies in the physiology of the fungi—VI. The relation of bacteria to cellulose fermentation induced by fungi, with special reference to the decay of wood. Ann. Missouri Bot. Gard. **6**: 93-136. Ap 1919.
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- Small, J. K.** *Rhabdadenia corallicola*. Addisonia 4: 33, 34. pl. 137.  
30 Je 1919.
- Small, J. K.** *Urechites pinetorum*. Addisonia 4: 21, 22. pl. 131.  
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Science II. 59: 48. 11 Je 1919.
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26 My 1919.
- Stakman, E. C.** Destroy the common barberry. U. S. Dept. Agr.  
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- Steil, W. N.** Apospory in *Pteris sulcata* L. Bot. Gaz. 67: 469-482.  
pl. 16, 17. 21 Je 1919.
- Stevens, F. L.** An apple canker due to *Cytospora*. Illinois Agr. Exp.  
Sta. Bull. 217: 367-379. f. 1-15. Mg 1919. [Illust.]
- Stevens, F. L.** Porto Rican fungi, old and new. Trans. Illinois Acad.  
Sci. 10: 162-218. f. 1-13. 1917.  
Includes *Dimeriopsis*, *Hyalosphaera*, *Borinquenia*, *Dexteria*, *Monogrammia*, and  
*Microclava*, gen. nov., and 53 new species in various genera.
- Stevens, F. L., & True, E. Y.** Black spot of onion sets. Illinois Agr.  
Exp. Sta. Bull. 220: 507-532. f. 1-19. My 1919.  
Describes *Cleistothecopsis* gen. nov.
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501-511. pl. 18. 21 Je 1919.  
New species are described in *Meliola* (4), *Phyllachora* (2), *Stigmatea* (1), *Phaeo-*  
*sphaerella* (1), *Coniothyrium* (1), *Pestalozzia* (1), *Acrothecium* (1), and *Trichostroma* (1).
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